

MCLK1	MRHSKRITYC-----PDWDERDWDYGTWRSSSSSH REKREK SHSSAREOKR	43
MCLK2	.P.PR.YHSSERGSRSYHEHYQSRKH KRR .P.WSSSEDTTRR.REDS	50
MCLK3	.H.C..YRSPEPDPLYTYRWK. RPS .SREHEGRLRYPS E .EPPPR.S---	47
MCLK4	.....H.-----S.ESWGHESY.G-.....E.....TO.NRH	42
MCLK1	CRYDHSKTTDSYYLESR ² SINEKAYHSRRYVDEY--RN BY MGYEPGHPYGE	91
MCLK2	YHVRSSRSY.DHSSDR.LY-----D.RYCGSYR...SRDRGEAY.DT	93
MCLK3	---RSRSHDRIP.QRRYREHRDSOTY.CEERSPSFGE.CYGSSRSRHRRR	94
MCLK4	.KPH.QFKDSDCHYLEARCLNERDYR.RYIDEY-...CEGYVPRH.HR	91
MCLK1	PGSRYQMHS-SKSSGRSGRASSYKSKHRSRHHTSQHSHGCKSHRRKRSRV	140
MCLK2	DFRQSYEYHREN..Y..Q...RRKHR.R.RSRTFSSRSSSHSS.RAK--	142
MCLK3	SRE.APYRTRKHAHHCHK.RTRSCSSASSRSQQSSKRSS R -----	136
MCLK4	DVESTYRIHC.-.V..R...P.R.RNRPCASH.S-----I	139
MCLK1	EDDEEGHLICQSGDVLSARY ² EIVDTLGE ² GAFGKVVECIDHKVGGRRVAVK	190
MCLK2	...A.....YHV..W.QE.....S.....TS.R..Q.V..RR..T...L.	192
MCLK3	...K.....V.RI.SW.QE.....GN.....T.....L..ARGKSQ..L.	186
MCLK4	.....R.....GMD.LH....	189
MCLK1	IVKNVDRYCEAAQSEIQVLEHLNTTDPHSTFRVCQMLEWFEHRGHICIVF	240
MCLK2	.I...EK.K...RL..N...KI.EK..DNKNL...FD..DYH..M..S.	242
MCLK3	.IR..GK.R...RL..N...KKIEK.KENK.L..L.SD..NFH..M..A.	236
MCLK4	.....GG.R...R.....S...N.V.....D.H..V....	239
MCLK1	ELLGLSTYDFIKENSFLPFPMDHIRKMAYQICKSVNFLHSNKLTHTDLKP	290
MCLK2	.....F..L.D.NY..YPIHQV.H..F.L.QA.K...E.....	292
MCLK3	....KN.FE.L...N.Q.YPLP.V.H....L.HALR...E.Q.....	286
MCLK4	.....QI....Q.....Q.I....H.....	289
MCLK1	ENILFVKSDYTEAYNP ² KMKRDERTIVNPDIKV ² DFGSAFYDDEHHSTLVS	340
MCLK2	.....N...ELT..LEK.....SVKSTAVR.....F.H.....I..	342
MCLK3	.....N.EFETL..EHKSCE.KSVK.TSIR.A.....F.H...T.I.A	336
MCLK4	.....VVK..S.....LK.T.....	339
MCLK1	TRHYRAPEVILALGWSQPCDVWSIGCILIEYYLGFTVFP ² THDSREHLAM ²	390
MCLK2	.....E.....IF...V...L.Q...N.....	392
MCLK3	.....P.....E...A.....F...R...L.Q..EN...V....	386
MCLK4	.....Q...K.....	389
MCLK1	**ERILGPLPKHMIQ ² TRKRRYFHHDRLOWDEHSSAGRYVSRCKPLKEFML	440
MCLK2	.....V.SR..R....QK..YRG.....NT.....REN....RRYLT	442
MCLK3	.K....I.S...HR...YKGG.V...N..D...KEN.....SY..	436
MCLK4	.....I.A.....K....NQ.....R.....	439
MCLK1	SQDAEHEFLFDLVGKILEYDPAKRITLKEALKHPFF ² YPLKXHT	483
MCLK2	.EAED.HQ....IENM...E....L..G...Q....AC.RTEPPN ² TKLWD	492
MCLK4	QDSL..VQ....MRRM..F...Q....A...L....AG.TPEERSF ² HSSR	486
MCLK5	CHDE...K.....RPM.....R....D...Q....DL..RE	489
MCLK1	SSRDISR	499
MCLK2	NPSR	496
MCLK3		
MCLK4		

Figure 1

MPHPRRYHSSERGSRGSYHEHYQSRKHKRRRSRSWSSSSDRTRRRRRREDSYHV
RSRSSYDDHSSDRRLYDRRYCGSYRRNDYSRDRGEAYYDTDFRQSYEYHRENS
SYRSQRSSRRKHRRRRRRRSRTFSRSSSHSSRAKSVEDDAEGHLIYHVGDWLQE
RYEIVSTLGEGTSGRVVQCVDHRRGGTRVALKIKNVEKYKEAARLEINVLEKI
NEKDPDNKNLCVQMFDWFDYHGHMCISFELLGLSTFDLKDNNYLPYPIHQ
VRHMAFQLCQAVKFLHDNKLTHIDLKPENILFVNSDYELTYNLEKKRDESV
KSTAVRVVDFGSATFDHEHHSTIVSTRHYRAPEVILELGWSQPCDVWSIGCIIFE
YYVGFTLFQTHDNREHLAMMERILGPVPSRMIRKTRKQKYFYRGRLDWDENT
SAGRYVRENCKPLRRYLTSEADHHQLFDLIENMLEYEPKRRLTLGEALQHPF
FACLRTEPPNTKLWDSSRDISR

Figure 2

1 cgcacggggc tgcgccag aacgatgccc catcccgaa ggtaccattc ctacagagcga
61 ggtagccggg ggagttacca cgaacactat cagagccgaa agcataagcg aagaagaagt
121 cgctcctggg caagtagcag tgaccggaca aggcggcggc ggagggagga cagctaccac
181 gttcgggtccc gaagcagcta tgatgacatc tgcgccgac ggccggctgta cgatcggcgg
241 tactgtggca gctacaggcg caatgactac agccgggaca gaggggaggc ttactacgac
301 acagacttcc ggacgtccta tgaataccat cgagagaaca gcagttaccg aagccagcgc
361 agcagccgaa ggaaacacag aaggcggagg agacggagcc ggacattcag ccgctcatct
421 tcacacagca gccggagagc caagagtgtg gaggacgacg ctgagggcca cctcatctac
481 cagtcggggg actggctaca agagcgatat gaaattgtaa gcacctagg agaagggact
541 tcgggccgag ttgtgcagtg tgtggacatc cgagggggcg gaacacgagt tgccctgaag
601 atcattaaga atgtggagaa gtacaaggaa gcagcccgac tagaaatcaa cgtgctggag
661 aaaatcaatg agaaagatcc tgacaacaag aacctctgtg tccagatgtt tgactggitt
721 gactaccatg gccacatgtg tatctcctt gagcttctgg gccttagcac cticgatttc
781 ctcaaagaca acaactacct gccctacccc atccaccaag tgcgccacat ggccttcag
841 ctctgccagg ccgtcaagtt cctccatgat aacaagttga cacatacgga cctcaaacct
901 gaaaatattc tgtttgtgaa ttcagaatc gaactacct acaacctaga gaagaagcga
961 gatgagcgca gtgtaaagag cacagccgtg cgggtggtgg acttcggcag tgccaccttt
1021 gaccacgaac accatagcac catgtgtccc actcgccatt accgagcccc cgaggctatc
1081 ctggagttgg gctggtcaca gccatgcgat gtatggagca taggctgcat catctttgag
1141 tactacgttg gcttcacctt cttccagacc catgacaaca gagagcatct agccatgatg
1201 gaaaggatcc tgggtcctgt ccttctcgg atgatcagaa agacaagaaa acagaaatat
1261 tttatcggg gtcgcctgga ttgggatgag aacacctcag ccggccgcta cgttcgtgag
1321 aactgcaaac ctctgcggcg gtatctgacc tcagaggcag aggaccacca ccagctcttc
1381 gatctgattg aaaatatgct agagtatgag cctgctaagc ggctgacctt aggtgaagcc
1441 cttcagcatc ctttcttcgc ctgccttcgg actgagccac ccaacaccaa gttgtgggac
1501 tccagtcggg atatcagtcg gtgacaatta ggctgggc

Figure 3

MHHCKRYRSPEPDPYLTYRWKRRRSYSREHEGRLRYPSRREPPRRSRSRSHDR
IPYQRRYREHRSDTYRCEERSPSFGEDCYGSSSRHRRRSRERAPYRTRKHAH
HCHKRRTRSCSSASSRSQQSSKRSSRSVEDDKEGHLVCRIGDWLQERYEIVGNL
GEGTFGKVVECLDHARGKSQVALKIIRNVGKYREAAARLEINVLLKKIKEKDKEN
KFLCVLMSDWFNFGHMCIAFELLGKNTEFLKENNFQPYPLPHVRHMAYQ
LCHALRFLHENQLTHTDLKPENILFVNSEFETLYNEHKSCEEKSVKNTSIRVAD
FGSATFDHEHHTTIVATRHYRPPEVILELGWAQPCDVWSIGCILFEYYRGFTLF
QTHENREHLVMMEKILGPIPSHMIHRTRKQKYFYKGGLVWDENSDDGRYVKE
NCKPLKSYMLQDSLEHVQLFDLMRRMLEFDPAQRTLAELHPFFAGLTPEE
RSFHSSRNPSR

Figure 4

1 ctgcaggctcg acactagtgg atccaaagaa ttccggcagca gcgcagccgg agcctggggag
61 acgatgcac actgtaagcg ataccgttcc ccagagccag acccatacct gacgtaccgc
121 tggaagagga ggccggctta cagtcggggag catgaaggc gactacgata cccatcccga
181 agggagcctc cccacaggag atcacgggtc agaagccatg atcgtatacc ctaccagcgg
241 aggtaccggg aacaccgtga cagtgtatcg tatcgggtgtg aagagcggag cccatctttt
301 ggagaggact gctatgggtc ttacgttct cgacatcgga gacggtcacg agagagggcg
361 ccgtaccgta cccgcaagca tgcaccacac tgcacaaac gccgtaccag gtcttgtagc
421 agtgccttct cgagaagcca acagagcagt aagcgcagca gccggagtgt ggaagatgac
481 aaggagggcc acctgggtgt ccggatcggc gattggctcc aagagcgata tgagatcgtg
541 gggaacctgg gtgaaggcac ctttggcaag gtgtggagt gcttggacca tgcagagggg
601 aagtcacagg ttgccctgaa gatcatccgt aatgtgggca agtatcggga agctgctcgt
661 ctgaaatata atgttctcaa gaaaatcaag gagaagaca aggaaaataa gtctcttgt
721 gtctgatgt ctgactggtt caacttccat ggtcatatgt gcctgcctt tgagctcctg
781 ggcaagaaca cctttgagtt cctgaaggag aacaacttcc agccttacc cctaccacat
841 gtccggcaca tggcctacca gctctgtcat gcccttagat ttctacacga gaaccagctg
901 acccacacag acttgaagcc agagaacatc ttgtttgtga attctgagtt tgaaacctc
961 tacaatgagc acaagagctg cgaggagaag tcagtgaaga acaccagcat ccgagtggca
1021 gactttggca gtgccacgtt tgaccatgaa catcacacca ccattgtggc caccgtcac
1081 taccggccac ctgaggtgat ccttgagctg ggctgggcac agccttgtga tgtctggagt
1141 atcggctgca ttctcttga gtactaccgt ggctttacac tcttcagac ccatgaaaat
1201 agagaacact tggttatgat ggagaagatt ctaggacca tccatcaca catgatccac
1261 cgtaccagga agcagaaata ttctacaaa gggggcctgg tttgggatga gaacagctct
1321 gatgggcggg atgtgaagga gaactgcaaa cctctgaaga gttacatgct gcaggactcc
1381 ctggagcatg tgcagctgtt tgacctgatg aggaggatgt tagagtcca ccctgctcag
1441 cgcacacat tggcagaagc cttgctgcac ccctctttg ctggcctgac ccctgaggag
1501 cggctcctcc acagcagccg taacccagc agatgacagg tgcaggccag cacacgaaga
1561 gtggagagc tggactgggc tgcctggccc ttcttccag cctctccac tggcctcaga
1621 gccagagcca ccgatgaaca gtgcaatgtg aaggaaggca ggacctgcaa gggaaggggg
1681 aatgtgggtc ccggctgcca gaaagcacag attggacca agctttata tgtgtaaag
1741 ttataataaa gtgttctta ctgtttgtaa aaaaaaaaaa aaaaaaa

Figure 5

MRHSKRTHCPDWDSRESWGHESYSGSHKRKRSHSSTQENRHCKPHHQFKD
SDCHYLEARCLNERDYRDRRYIDEYRNDYCEGYVPRHYHRDVESTYRIHCSKS
SVRSRRSSPKRKRNRPCASHQSHSKSHRRKRSRSIEDDEEGHLICQSGDVLAR
YEIVDTLGEAAGKVVVECIDHGMDFHVAVKIVKNVGRYREAAARSEIQVLEH
LNSTDPNSVFRVCVQMLEWFDHHGHVCIVFELLGLSTYDFIKENSFLPFQIDHIR
QMAYQICQSINFLHHNKLTHIDLKPENILFVKSDYVVKYNSKMKRDERTLKN
TDIKVVDFGSATYDDEHHSTLVSTRHYRAPEVILALGWSQPCDVWSIGCILIEY
YLGFTVFQTHDSKEHLAMMERILGPIPAHMIQKTRKRKYFHHNQLDWDEHSS
AGRYVRRRCKPLKEFMLCHDEEHEKLFDLVRRLMLEYDPARRITLDEALQHPFF
DLLKRK

Figure 6

1 aaagagacgc agcgggctgga gaggaacgac ggcgggttgg cgacatttct gccaaaagg
61 ccgcttgctt ttgcggagat gcggcattcc aaacgaactc actgtcttga ttgggatagt
121 agagaaagct ggggccatga aagctacagt ggaagtcaca aacgcaagag aaggctcac
181 agcagtactc aggagaacag gcactgtaaa ccacatcacc agtttaaaga ctgggattgt
241 cactatttag aagcaagatg cttgaatgag agagattatc gggaccggag atacattgat
301 gaatacagaa atgactactg cgaaggatat gtccaagac attaccatag agacgttgaa
361 agcacttacc ggatccattg cagtaaatcc tcagtacgga gcaggagaag cagccctaag
421 agaaagcgta atagaccctg tgcaagtcac cagtcgcatt cgaagagcca ccgaaggaaa
481 agatccagga gtatagagga tgatgaggag ggtcacctga tctgtcaaag tggagacgtt
541 ctaagagcaa gatatgaaat cgtggacact ttagggtgaa gagcctttgg caaagttgta
601 gagtgcattg atcacggcat ggatggctta catgtagcag tgaaaattgt aaaaaatgta
661 ggacgttacc gggaggcagc tegtctgaa atccaagtat tggagcactt gaacagcact
721 gacccaaca gtgtcttccg atgcgtccag atgctagagt ggttgatca tcatggtcat
781 gtttgatttg tgttgagct gctgggactt agtacctatg attttattaa agaaaatagt
841 ttctgccat tcaaatgta tcacatcagg caaatggctt atcagatctg ccagtctata
901 aatttttac atcataataa attaacacac acggacctaa aacctgaaaa tattttattt
961 gtgaagtcctg actatgtagt caaatacaat tctaaaatga aacgagatga gcgcacattg
1021 aaaaacacag atatcaaagt tgttgatttt ggaagtgcaa catatgacga cgaacatcat
1081 agtactttgg tgtccacaag gcactacagg gctccagagg tcattttggc tctaggttgg
1141 tctcagccct gtgatgtttg gagcataggg tgcattctta ttgagtacta ccttgggttc
1201 acagtcttcc agaccacga tagtaaagag cacctggcaa tgatggagcg gatcttagga
1261 cccatcccag cacatatgat ccagaagaca aggaacgca agtatitcca ccataaccag
1321 ctgattggg acgagcatag ttcagctggg agatatgtta ggagacgctg caagccgtta
1381 aaggaattta tgctgtgtca tgacgaagag catgagaagc tgtttgacct gggtcgaaga
1441 atgttgagat atgaccacgc gagaaggatc accttggatg aagcattgca gcacccttc
1501 ttgacttat taaaaaggaa atgagtggga gtcagggcgg ccgcaccgc

Figure 7